



**US Army Corps  
of Engineers®**

Engineer Research and  
Development Center

# CORPSCON Coordinate Conversion Software

## Technology

CORPSCON, Version 5.11, is a MS-Windows-based program which allows the user to convert coordinates between Geographic, State Plane and Universal Transverse Mercator (UTM) systems on the North American Datum of 1927 (NAD 27), the North American Datum of 1983 (NAD 83) and High Accuracy Reference Networks (HARNs). CORPSCON uses the National Geodetic Survey (NGS) program NADCON to convert between NAD 27, NAD 83 and HARNs. CORPSCON, Version 5.11, performs vertical conversions to and from the National Geodetic Vertical Datum of 1929 (NGVD 29) and the North American Vertical Datum of 1988 (NAVD 88). Vertical conversions are based on the NGS program VERTCON and can be performed for the continental U.S. only. CORPSCON, Version 5.11, will also calculate geoid-ellipsoid separations based on the NGS program Geoid96. Geoid-ellipsoid separations can be calculated for the Continental U.S., Alaska, Hawaii and Puerto Rico/U.S. Virgin Islands.

## Problem

Geospatial data gathered from different sources, different agencies, or historical archives, may have been collected in different coordinate systems or datums. In order to combine these types of data, they must be transformed or converted into a common coordinate system and/or datum. CORPSCON provides consistent conversions between various coordinate systems and datums within the Continental U.S., Alaska, Hawaii and Puerto Rico/U.S. Virgin Islands.

## Expected Cost To Implement

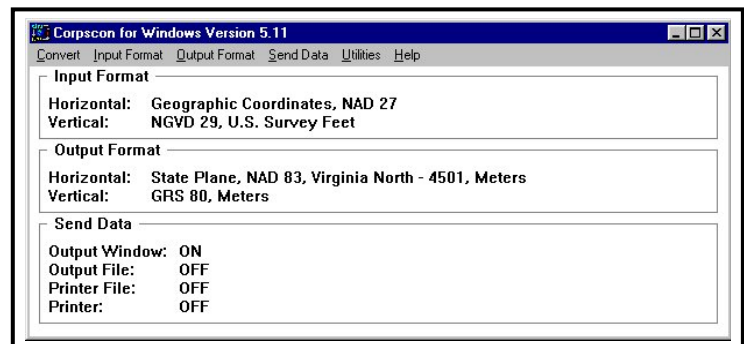
CORPSCON has a Microsoft Windows (MS-Windows)-based Graphical User Interface that allows the user to specify the type of conversion desired and allows data entry by key-in or batch file. The program requires a PC with a 80386 (or higher) processor and about 20 megabytes of hard disk space. MS-Windows95/98/NT/2000/XP is also required.

## Benefits/Savings

CORPSCON has become the industry standard for coordinate and datum conversions within the US.

## Status

Version 5.11.08 is the current release of CORPSCON and is available via the Internet. Version 6 is currently being developed to include new Geoid models and accuracy assessment.



## ERDC POC

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<b>Distribution Sources</b>	The program is available via the Internet from <a href="http://www.tec.army.mil/what_products.html">http://www.tec.army.mil/what_products.html</a> click on Products and Service then CORPSCON.
<b>Available Documentation</b>	Documentation is distributed with the software.
<b>Available Training</b>	CORPSCON is used in PROSPECT Survey I, II, III, and IV classes.
<b>Available Support</b>	Due to restricted resources, very limited assistance is available to non-Corps of Engineers users. For frequently asked questions and answers, please see our <a href="http://crunch.tec.army.mil/software/corpscon5/CorpsconFAQs.htm">Frequently Asked Questions</a> ( <a href="http://crunch.tec.army.mil/software/corpscon5/CorpsconFAQs.htm">http://crunch.tec.army.mil/software/corpscon5/CorpsconFAQs.htm</a> )